WHAT IS CLAIMED IS:

- 1. An electrostatic spraying device being configured and disposed to electrostatically charge and dispense a product from a supply to a point of dispersal, wherein said device comprises:
 - a reservoir configured to contain the supply of product;
- a nozzle to disperse the product, said nozzle being disposed at the point of dispersal; said nozzle having an exit orifice;
- a channel disposed between said reservoir and said nozzle, wherein said channel permits the electrostatic charging of the product upon said product moving within said channel;
 - a power source to supply an electrical charge;
- a high voltage power supply, said high voltage power supply being electrically connected to said power source;
- a high voltage electrode, said high voltage electrode being electrically connected to said high voltage power supply, a portion of said high voltage electrode being disposed between said reservoir and said nozzle, said high voltage electrode electrostatically charges the product within said channel at a charging location; and
- a high voltage shield substantially surrounding said reservoir, said high voltage shield being conductive.
- 2. The electrostatic spraying device of Claim 1, wherein said high voltage shield is selected from one of the group consisting of: a conductive plastic high voltage shield and a metal high voltage shield.
- 3. The electrostatic spraying device of Claim 1, wherein said high voltage shield is an integral part of the reservoir.
- 4. The electrostatic spraying device of Claim 3, wherein said reservoir is part of a removable cartridge.
- 5. The electrostatic spraying device of Claim 1, further comprising a valve for preventing backflow into said reservoir.

- 6. The electrostatic spraying device of Claim 1, wherein said high voltage shield forms a wall of said reservoir.
- 7. A cartridge configured to contain and deliver a product for use with an electrostatic spray device comprising:
 - a reservoir configured to contain the product;
 - a nozzle to disperse the product, said nozzle having an exit orifice;
- a channel disposed between said reservoir and said nozzle, wherein said channel permits the electrostatic charging of the product upon said product moving within said channel;
 - a high voltage contact for receiving power from the electrostatic device;
- a high voltage electrode electrically connected to said high voltage contact, said high voltage electrode being configured to charge the product for dispersal from said nozzle; and
- a high voltage shield substantially surrounding said reservoir, said high voltage shield being conductive.
- 8. The cartridge of Claim 7, wherein said high voltage shield is selected from one of the group consisting of: a conductive plastic high voltage shield and a metal high voltage shield.
- 9. The cartridge of Claim 7, wherein said high voltage shield is an integral part of the reservoir.
- 10. The cartridge of Claim 7, further comprising a valve for preventing backflow into said reservoir.
- 11. The electrostatic spraying device of Claim 7, wherein said high voltage shield forms a wall of said reservoir.
- 12. An electrostatic spraying device being configured and disposed to electrostatically charge and dispense a product from a supply to a point of dispersal, wherein said device comprises:
 - a reservoir configured to contain the supply of product, said reservoir having a volume;

a nozzle to disperse the product, said nozzle being disposed at the point of dispersal; said nozzle having an exit orifice;

a channel disposed between said reservoir and said nozzle, wherein said channel permits the electrostatic charging of the product upon said product moving within said channel;

a power source to supply an electrical charge;

a high voltage power supply, said high voltage power supply being electrically connected to said power source;

a high voltage electrode, said high voltage electrode being electrically connected to said high voltage power supply, a portion of said high voltage electrode being disposed between said reservoir and said nozzle, said high voltage electrode electrostatically charges the product within said channel at a charging location,

wherein the device has a volume available to contain the product between said high voltage electrode and said nozzle exit orifice, said volume being selected from one or more of the group consisting of: less than about 20 percent of the volume of a designed product application, and less than about 10 percent of said volume of said reservoir.

- 13. The electrostatic spraying device of Claim 12, wherein said channel has a ratio of a length of said channel from said high voltage electrode to said nozzle exit orifice of less than about 1.
- 14. A cartridge configured to contain and deliver a product for use with an electrostatic spray device comprising:
 - a reservoir configured to contain the product, said reservoir having a volume;
 - a nozzle to disperse the product, said nozzle having an exit orifice;
- a channel disposed between said reservoir and said nozzle, wherein said channel permits the electrostatic charging of the product upon said product moving within said channel;
 - a high voltage contact for receiving power from the electrostatic device; and
- a high voltage electrode electrically connected to said high voltage contact, said high voltage electrode being configured to charge the product for dispersal from said nozzle,

wherein the cartridge has a volume available to contain the product between said high voltage electrode and said nozzle exit orifice, said volume being selected from one or more of the group consisting of: less than about 20 percent of the volume of a designed product application, and less than about 10 percent of said volume of said reservoir.

15. The electrostatic spraying device of Claim 12, wherein said channel has a ratio of a length of said channel from said high voltage electrode to said nozzle exit orifice of less than about 1.